

Product Data Sheet

FITC anti-human CD3

Catalog # / Size: 300305 / 25 tests

300306 / 100 tests

Clone: HIT3a

Isotype: Mouse IgG2a, κ

Workshop Number: V CD03.05

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with

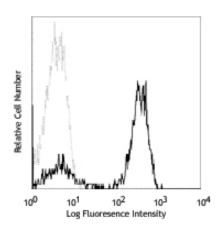
FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with HIT3a FITC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the

suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed

frozen sections, immunoprecipitation, and activation of T lymphocytes⁴⁻⁷. The HIT3a antibody is able to stimulate T cell activation. The LEAFTM purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 300314). For highly sensitive assays, we recommend Ultra-LEAFTM purified antibody (Cat. No. 300332) with a lower endotoxin limit than standard LEAFTM purified antibodies (Endotoxin <0.01 EU/μg).

Application References: 1. Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.

Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York.
Barclay N, et al. 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego.

4. Sedelies KA, et al. 2004. J. Biol. Chem. 279:26581. (Activ)

5. Rivollier A, et al. 2004. Blood 104:4029. (Activ)

6. Scharschmidt E, et al. 2004. Mol. Cell Biol. 24:3860. (Activ) 7. Smeltz RB. 2007. J. Immunol. 178:4786. (Activ)

Description: CD3ε is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3ε, one CD3γ, one

CD3 δ , one CD3 ζ (CD247), and a T-cell receptor (α/β or γ/δ) heterodimer. It is found on all mature T lymphocytes, NK-T cells, and some thymocytes. CD3, also known as T3, is a member of the immunoglobulin superfamily that plays

a role in antigen recognition, signal transduction, and T cell activation.

Antigen References: 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.

Human TruStain FcX™ (Fc Receptor Blocking Solution)

2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329.

3. Lanier L, et al. 1986. J. Immunol. 137:2501-2507.

Related Products: Product

Clone Application FITC anti-human CD19 HIB19 FITC anti-human CD8a HIT8a FITC anti-human CD4 RPA-T4 RPA-T8 FITC anti-human CD8a FITC anti-human CD3 UCHT1 FC, ICFC FC, ICC, ICFC FC, ICFC **MOPC-173** FITC Mouse IgG2a, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X)





FC, ICC, ICFC